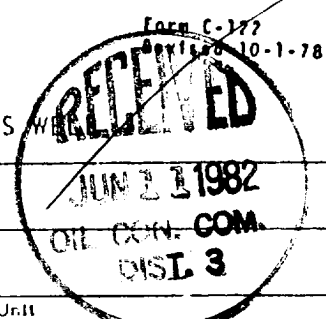




MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 6-4-82	
Company Dugan Production Corp.				Connection			
Pool Basin Dakota				Formation Dakota			
Completion Date 5-27-82		Total Depth 5570' RKB		Plug Back TD 5468' RKB		Elevation 5320' GL	
Ceq. Size 4-1/2"		Wt. 10.5#		Set At 185' RKB		Perforations: From 5382 To 5396	
Thq. Size 1-1/2"		Wt. 2.9#		Set At 5315' RKB		Perforations: From open end To	
Type Well - Single - Brodenhead - G.G. or G.O. Multiple Single - gas						Packer Set At 5315' RKB	
Producing Thru		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _a	
L		H		G _g .65 est		% CO ₂ % N ₂ % H ₂ S	
Prover		Meter Run		Taps		County San Juan	
State New Mexico							

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI							1695		Packer		7 days
1.											
2.											
3.	1/2" pos. choke		20			62					3 hrs
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1							
2							
3	5.4145		32	.9981	.9608	1.000	166
4							
5							

NO.	P _f	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.	
1					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.	
2					Specific Gravity Separator Gas _____ XXXXXXXXXX	
3					Specific Gravity Flowing Fluid _____ XXXXX	
4					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.	
5					Critical Temperature _____ R _____ R	

NO.	P _f ²	P _w ²	P _f ² - P _w ²	(1) $\frac{P_c^2}{P_f^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_f^2 - P_w^2} \right]^n =$
1					
2					
3					
4					
5					

AOF = Q $\left[\frac{P_c^2}{P_f^2 - P_w^2} \right]^n = 166$

Absolute Open Flow _____ 166 _____ Mcfd @ 15.025	Angle of Slope Φ _____	Slope, n _____ 75 _____
Remarks: _____		

Approved By Division	Conducted By: Anderson	Calculated By: Jacobs	Checked By:
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